

# MINCHAE KIM

yjk199900@korea.ac.kr | (+82) 10-4507-8650 | [Website](#) | [LinkedIn](#)

## RESEARCH INTERESTS

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Extended Reality; Cross Reality; Human-Computer Interaction; Human-AI Interaction

## EDUCATION

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**M.S. in Computer Science and Engineering, Korea University** Mar. 2024 – Present

- Advisor: Prof. Gerard Jounghyun Kim
- Thesis: “JourneyVR: Designing for Continuous Workflow Experience in Virtual Reality”

**B.S. in Software, Sejong University** Mar. 2019 – Feb. 2024

- Cum Laude

**New Jersey City University** Jan. 2023 – Mar. 2023

- Exchange Student (Non-degree Program)

## RESEARCH EXPERIENCE

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**Digital eXPerience Lab, Korea University** Mar. 2024 – Present

- Graduate Research Assistant (Advisor: Prof. Gerard Jounghyun Kim)
- Proposed and implemented an immersive system that supports spatially continuous task transitions in virtual reality, and conducted user studies to evaluate workflow continuity and user experience
- Contributed to the design and evaluation of an immersive balance training environment that enhances users' tolerance to cybersickness

**Graphics Lab, Sejong University** Sep. 2023 – Jan. 2024

- Undergraduate Research Assistant (Advisor: Prof. Oh-Young Song)
- Proposed and implemented a multimodal interface combining gesture and speech for intuitive control of visual effects in XR environments

**Mixed Reality & Interaction Lab, Sejong University** Feb. 2021 – Dec. 2022

- Undergraduate Research Assistant (Advisor: Prof. Jong-Weon Lee)
- Designed and implemented interactive systems to enhance accessibility for users with visual impairments

## PUBLICATIONS

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### Conference & Journal Papers

1. Y.Yang, S.Kang, **M.Kim**, G.Kim, and H.Kim. BalanceVR: balance training to increase tolerance to cybersickness in immersive virtual reality. *Virtual Reality*, Vol. 29, no. 39. 2025 (IF = 4.2). [\[Link\]](#)

### Posters

1. **M.Kim**, Y.Yang, and G.Kim. JourneyVR: Experience Design for Continuous Timed Activities in Virtual Reality. *IEEE Symposium on Mixed and Augmented Reality Adjunct (IEEE ISMAR-Adjunct '25)*. [\[Link\]](#)
2. J.Choi, **M.Kim**, and O.Song. Multimodal Interface for Controlling Visual Effects in XR Environment. *Korea Computer Graphics Society (KCGS '24)*.

### Under Review

1. **M.Kim**, J.Ryu, Y.Yang, and G.Kim. JourneyVR: Designing for Continuous Workflow Experience in Virtual Reality. (*Full paper submitted to CHI '26*)

2. D.Joo, Y.Chang, J.Park, K.Jung, **M.Kim**, and G.Kim. Quantifying Low-Level Motor Effects of Emotion: Validating Fitts' Law in Affective Contexts. (*Full paper submitted to CHI '26*)

TEACHING EXPERIENCE

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<b>Teaching Assistant</b>	
• Deep Learning ( <i>Korea University</i> )	Fall 2025
• Artificial Intelligence ( <i>Korea University</i> )	Spring 2025
• Mathematics for Computer Science II ( <i>Korea University</i> )	Fall 2024
• Application of Advanced Programming Language ( <i>Sejong University</i> )	Spring 2022
• Basics of Software and Coding ( <i>Sejong University</i> )	Fall 2021
• Basics of Software Coding Based on Computational Thinking ( <i>Sejong University</i> )	Spring 2021
<b>Tutor</b>	
• Unity Programming ( <i>Sejong University</i> )	Jul. 2022

TALKS & EXHIBITIONS

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<b>Mixing in Reverse Optical Flow to Mitigate Vection and Simulation Sickness in Virtual Reality</b>	Jun. 2024
• AWE USA 2024, Long Beach, California	
<b>ITRC Talent Cultivation Competition</b>	Apr. 2024
• World IT Show 2024, Seoul, South Korea	

AWARDS & SCHOLARSHIPS

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<b>Outstanding Exhibition Center (<i>ITRC</i>)</b>	Apr. 2024
• Exhibited VR research focused on enhancing military training and reducing headset weight	
<b>Second Place, Creative Design Competition (<i>Sejong University</i>)</b>	Dec. 2023
• Developed a puzzle game featuring seamless transitions between 2D and 3D perspectives	
<b>Global Excellence Scholarship (<i>Sejong University</i>)</b>	Jan. 2023
• Awarded full-tuition scholarship for outstanding academic performance and leadership in international exchange programs	
<b>First Place, Department of Software Academic Conference (<i>Sejong University</i>)</b>	Jun. 2022
• Developed a VR campus simulation to facilitate freshmen orientation	
<b>Grade Improvement Scholarship (<i>Sejong University</i>)</b>	May 2021
• Awarded for demonstrating significant improvement in GPA	
<b>Language Excellence Scholarship (<i>Sejong University</i>)</b>	Apr. 2019
• Awarded for achieving a TOEIC score of 950+	

SKILLS

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**Programming Language:** C#, C++, Python, Java, Swift  
**VR/AR:** Unity, Meta XR SDK, SteamVR, XR Interaction Toolkit  
**AI:** TensorFlow, PyTorch  
**Data Analysis:** JASP, RStudio, SAS, MATLAB  
**Language:** English (Fluent), Korean (Native)